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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/665,920	09/18/2003	Edward E. Miller	L03-024	7064	
29416	7590 07/13/2005		EXAMINER		
	SEMICONDUCTOR C	NGUYE	NGUYEN, HIEP		
	ORE COURT D. OR 97124-6421	ART UNIT	PAPER NUMBER		
	,		2816		

DATE MAILED: 07/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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,		Applicat	ion No.	Applicant(s)				
Office Action Summary		10/665,9	920	MILLER, EDWARD	E.			
		Examine) r	Art Unit				
		Hiep Ngu	<u> </u>	2816				
Period fo	The MAILING DATE of this communor Reply	ication appears on th	ie cover sheet wit	h the correspondence addr	ess			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comn e period for reply specified above is less than thirty (3 o period for reply is specified above, the maximum st ure to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no enunication. 0) days, a reply within the structury period will apply and will, by statute, cause the ap	vent, however, may a re atutory minimum of thirty will expire SIX (6) MONT oplication to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this common the mailing date of	munication.			
Status	,							
1)⊠	Responsive to communication(s) file	ed on 22 Anril 2005						
·	Responsive to communication(s) filed on <u>22 April 2005</u> . This action is FINAL . 2b) This action is non-final.							
3)	<u></u>							
٠,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠ 5)⊠ 6)⊠ 7)⊠	 ✓ Claim(s) 20-29 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. ✓ Claim(s) 20-22, 28 and 29 is/are allowed. ✓ Claim(s) 23 and 25-27 is/are rejected. ✓ Claim(s) 24 is/are objected to. ✓ Claim(s) are subject to restriction and/or election requirement. 							
Applicat	ion Papers							
9)□	The specification is objected to by the	e Examiner.						
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any object	ction to the drawing(s)	be held in abeyand	ce. See 37 CFR 1.85(a).				
44)	Replacement drawing sheet(s) including	•			` ,			
11)	The oath or declaration is objected to	b by the Examiner. N	lote the attached	Office Action or form PTO	-152.			
Priority (under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation See the attached detailed Office action	documents have be documents have be of the priority documental Bureau (PCT Ru	en received. en received in Ap nents have been r ule 17.2(a)).	oplication No received in this National St	age			
Attachmen	t(s)	·						
	e of References Cited (PTO-892)			ımmary (PTO-413)				
3) 🔲 Infor	ee of Draftsperson's Patent Drawing Review (Pmation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date			/Mail Date formal Patent Application (PTO-1 	52)			

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DETAILED ACTION

The amendment filed on 04-22-05 has been received and entered in the case. New ground of rejections necessitated by the amendment is set forth below.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 23 and 25-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Huang (4,258,272).

Regarding claim 23, figure 6 of Huang shows comparator comprising an input amplifier including: first pair of input transistors (P1", P2"); second pair of input transistors (N1", N4") a summing stage (node 32) and a feedback stage (P5", N5", P6", N6").

Regarding claim 25, first and second hysteresis transistors (P6" N6") supply current to the summing stage.

Regarding claims 26 and 27, the recitation "integrated within a programmable analog integrated circuit" in claim 26, "analog circuit blocks", "an analog routing pool" in claim 27 are merely intended use thus, they do not further limit the limitations of claim 23. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex Parte Masham, 2 USPQ F.2d 1647 (1987). Therefore, these limitations have not been given patentable weight.

Allowable Subject Matter

Claims 20-22, 28 and 29 are allowed.

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Claim 24 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 20-22, 28 and 29 are allowed because the prior art of records (4,258,272) fails to teach or suggest a comparator comprising first and second mirrors coupled to first and second pairs of input amplifier and first and second hysteresis transistors coupled to first and second current mirrors as called for in claim 20; a comparator comprising a summing stage including first and second current mirrors for summing first and second pairs of input amplifier output signals as called for in claim 28. Therefore, claims 20-22, 28 and 29 are presently allowed.

Claim 24 is objected to because the prior art of records (4,258,272) fails to teach or suggest a comparator comprising first and second mirrors coupled to first and second pairs of input amplifier for summing first and second pairs of input amplifier output signals.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hiep Nguyen whose telephone number is (571) 272-1752. The examiner can normally be reached on Monday to Friday from 7:30am to 4:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hiep Nguyen

07-07-05